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٠.	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/691,651	10/24/2003	Figen Cetin	Q78088	7630
•	23373 7590 05/09/2007 SUGHRUE MION, PLLC			EXAMINER	
	2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037		I.W.	SU, BENJAMIN	
				ART UNIT	PAPER NUMBER
				2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		7.H				
	Application No.	Applicant(s)				
	10/691,651	CETIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Benjamin Su	2616				
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAIL - Extensions of time may be a vailable under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If NO period for reply is specified above, the maximum statutor - Failure to reply within the set or extended period for reply will, I Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUNION (CFR 1.136(a)). In no event, however, may a lation. Ty period will apply and will expire SIX (6) MON by statute, cause the application to become AE	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n <u>24 October 2003</u> .					
• — •	☑ This action is non-final.	•				
	Since this application is in condition for allowance except for formal matters, prosecution as to the closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-14</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) <u>1-14</u> is/are rejected.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>24 <i>October 2003</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	cuments have been received. cuments have been received in A he priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ☐ Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	.948) Paper No((s)/Mail Date Informal Patent Application				

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DETAILED ACTION

Note

1. In claim 9, lines 1, 5, 7, 10, the term "adapted to " is not a positively recited claim limitation. Therefore, the limitations after the term are not considered as claim limitations. It is suggested the applicant remove the term. See MPEP 2111.04. Same problem exists in claim 13, line 3, "adapted to"; claim 14, line 4, "adapted to".

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. The abstract of the disclosure is objected to because it contains the word "said". Correction is required. See MPEP § 608.01(b).

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Claim Objections

5. Claims 2 - 8, 10 - 14 are objected to because of the following informalities:

For claim 2, line 1, the recitation of "Method" should be changed to ---The method ---. Same problem exists in claims 3 – 8, line 1, "Method";

For claim 10, line 1, the recitation of "Ingress router" should be changed to "The ingress router---. Same problem exists in claims 9 – 14, line 1, "Ingress router".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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6. Claims 1 – 4, 9 - 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Washabaugh et al. (US 7023856).

Washabaugh et al. disclose, regarding claim 1, Method for engineering traffic between an ingress router (see Figure 3, Box 330, Ethemet Switch/Router) and an egress router(see Figure 3, Box 312 Communications Network, it is inherent that there is an egress router in the communications network) of a packet network (see Figure 3, Box 312, Communications Network), the traffic being scheduled within the ingress router in queues pertaining to different service classes (see column 4, lines 49 – 50), the method further including a step of determining a part of the traffic which will follow a dedicated tunnel between the ingress and the egress router characterized in that the method includes the provisioning of a tunnel queue dedicated to the part of the traffic intended to flow via the dedicated tunnel, for separately and temporarily storing the part of the traffic towards the dedicated tunnel (see column 4, lines 16 – 19, wherein VC1, VC2, VC3 correspond to dedicated tunnel, column 6, lines 46 – 52, wherein gueues 652A, 652B, 652C, and 652D correspond to tunnel gueues) the method further includes a step of shaping the part of the traffic towards the dedicated tunnel before entering in the traffic tunnel (see column 9, lines55 – 56, column 10, lines 16 - 20, wherein the queue specific counter corresponds to shaping traffic because it is used to limit the traffic output from the specific queue);

regarding claim 2, the method includes the provisioning of a set of tunnel queues , associated to the dedicated traffic tunnel, each tunnel queue within the set pertaining to a different service class (see column 6, lines 9-12, wherein class A, B, C, D

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correspond to different service class, lines 46 – 52, wherein class-specific queues 652A, 652B, 652C, 652D correspond to a set of tunnel queues associated to dedicated traffic tunnel);

regarding claim 3, to each tunnel queue of the set a separate shaper is provided for shaping the traffic from the each tunnel queue of the set (see column 9, lines55 - 56, column 10, lines 16 - 20, wherein the queue specific counter corresponds to a separate shaper because it is used to limit the traffic output from the specific queue);

regarding claim 4, the set of tunnel queues is associated to a plurality of dedicated traffic tunnels, pertaining to the same egress interface of the ingress router (see Figure 6, Box 652A, 652B, 652C, 652D, Box VC1, Box VC3, Box 648 PHY);

regarding claim 9, Ingress router of a packet network (see Figure 3, Box 330 Ethernet Switch/Router, Box 312 Communications Network), the ingress router being adapted to route packets within the packet network to an egress router of the packet network via at least one dedicated tunnel to the egress router (see Figure 3, Box 330, Ethernet Switch/Router, Box 312 Communication Networks, Box 338 VC1, wherein Ethernet Switch/Router corresponds to ingress router, Communication Networks correspond to the packet network, VC1 corresponds to a dedicated tunnel, it is inherent that an egress router connects to VC1 in the communication networks), the ingress router including at least one plurality of queues pertaining to different service classes (see column 6, lines 46 – 52), the ingress router being adapted to temporarily store incoming packets within one of these queues, on the basis of their service class and on the basis of their destination (see column 6, lines 1 – 3, lines 46 – 52, wherein CA

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associated with a variable-length packet corresponds to storing packets based on their destination, wherein the packet classifier determines the class each packet belongs and class-specific queues corresponds to storing packets based on their service class) characterised in that

the ingress router further includes at least one tunnel queue dedicated and associated to the at least one dedicated tunnel (see column 6, lines 46 – 56, wherein queues 652A, 652B, 652C, 652D correspond to tunnel queue dedicated and associated with one dedicated tunnel VC1, Figure 6 Box 652A, 652B, 652C, 652D)

the ingress router is further adapted to temporarily store part of the incoming packets within the at least one tunnel queue within the ingress router (see column 7, lines 36 – 38),

whereby the ingress router further includes at least one tunnel shaper associated to the at least one dedicated tunnel, and adapted to shape the traffic of the at least one dedicated tunnel (see column 9, lines55 – 56, column 10, lines 16 – 20, wherein the queue specific counter corresponds to a separate shaper because it is used to limit the traffic output from the specific queue);

regarding claim 10, the ingress router further includes at least one set of tunnel queues, pertaining to different service classes, and associated to the at least one dedicated tunnel (see column 6, lines 46 – 52, Figure Box 644, wherein queues 652A, 652B, 652C, 652D correspond to a set of tunnel queues, pertaining to different service classes, and associated to tunnel VC1);

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regarding claim 11, the ingress router further includes at least one set of tunnel shapers associated to the at least one dedicated tunnel (see column 9, lines 55 - 56, column 10, lines 16 - 20, wherein the queue specific counters correspond to a set of tunnel shapers);

regarding claim 12, the at least one set of tunnel queues pertaining to different service classes, is associated to a plurality of dedicated tunnels pertaining to the same egress interface of the ingress router (see Figure 6, Box 652A, 652B, 652C, 652D, Box VC1, Box VC3, Box 648 PHY);

Claim Rejections - 35 USC § 103

- This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.

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3. Resolving the level of ordinary skill in the pertinent art.

- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 5 7, 13 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Washabaugh et al. in view of Goguen et al. (US 6665273).

Washabaugh et al. disclose, regarding claim 5, all the subject matter of the claimed invention as recited in paragraph 6 of this office action.

Washabaugh et al. fail to teach the method includes a step of monitoring the traffic via the dedicated tunnel, a step of comparing the result of the monitoring with a reserved bandwidth for the dedicated tunnel, and, depending upon the result of the comparison, a step of informing a network administrator by sending a message to the network administrator.

Goguen et al. from the same or similar field of endeavors teach a step of monitoring the traffic via the dedicated tunnel, a step of comparing the result of the monitoring with a reserved bandwidth for the dedicated tunnel (see column 8, lines 54 – 57), and, depending upon the result of the comparison, a step of informing a network administrator by sending a message to the network administrator (see column 8, lines 57 – 60, wherein the TE module corresponds to a network administrator and it is inherent the TE module and the comparator communicates through messaging).

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Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use a step of monitoring the traffic via the dedicated tunnel, a step of comparing the result of the monitoring with a reserved bandwidth for the dedicated tunnel, and, depending upon the result of the comparison, a step of informing a network administrator by sending a message to the network administrator in the method taught by Washabaugh et al. in order to allow sufficient allocation of resources to service the tunnel (see column 6, lines 60 – 61).

Claims 6, 13 are reject the same reason as above.

Regarding claim 7. Goguen et al. disclose upon receipt of a message indicating that the traffic through the dedicated tunnel, respectively the plurality of dedicated tunnels, exceeds a predetermined value, the network administrator increases the reserved bandwidth (see column 8, lines 54 – 62), whereas a new path or paths are calculated for the dedicated tunnel, respectively the plurality of dedicated tunnels, between the ingress router and the egress router (see column 8, lines 1-3).

Regarding claim 14, Washabaugh et al. disclose all the subject matter of the claimed invention as recited in paragraph 6 of this office action.

Washabaugh et al. fail to teach the ingress router is further adapted to receive a predetermined message from the network administrator related to the enabling of the at least one tunnel queue or the set of tunnel queues, and to determine therefrom whether or not to enable the at least one tunnel queue for receiving packets intended to the at least one dedicated tunnel.

Goguen et al. from the same or similar field of endeavors teach the ingress router is further adapted to receive a predetermined message from the network administrator related to the enabling of a timer (see column 9, lines 20 – 25).

Thus, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use the ingress router is further adapted to receive a predetermined message from the network administrator related to the enabling of the at least one tunnel queue or the set of tunnel queues, and to determine therefrom whether or not to enable the at least one tunnel queue for receiving packets intended to the at least one dedicated tunnel in the method taught by Washabaugh et al. in order to allow increased efficiency of system resources.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Liu (US 2004/0081197) and Kawarai et al. (US 2001/0033581) are cited to show methods which are considered pertinent to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin Su whose telephone number is 571-270-1423. The examiner can normally be reached on Monday - Friday 10 - 3 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Q. Ngo can be reached on 571-272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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SUPERVISORY PATENT EXAMINER